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2 Bay-Delta Conservation Plan Goals and Objectives for

3 Terrestrial Covered Species

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4	Intro	du	ctio	n
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- 5 As identified in the BDCP Overview dated January 12, 2009 and other planning
- 6 documents, the BDCP Steering Committee anticipates that implementation of BDCP
- 7 proposed covered activities and conservation measures will affect certain terrestrial
- 8 species and their habitats, and that the BDCP Conservation Strategy will therefore need
- 9 to address these unavoidable effects. At the direction of the Steering Committee, SAIC
- 10 has been pursuing the following approach for terrestrial species:
- a. identify the terrestrial species or habitats that may be affected by the proposed BDCP;
- b. identify the biological goals and objectives that may be appropriate for these affected terrestrial species;
- 15 c. identify (by working though the individual substantive workgroups, like 16 habitat and other stressors) the potential conservation measures that may be 17 appropriate to implement for these species and their habitats to meet the 18 relevant goals and objectives;
- d. identify opportunities to work with existing HCP/NCCP plans in these same geographic areas that may already have programs that might be relevant, and pursue discussions with those entities about these opportunities for further collaboration.
- This handout presents a preliminary set of draft biological goals and objectives for the proposed terrestrial covered species that may be affected by BDCP implementation.

 SAIC has developed these two general types of biological goals for terrestrial covered species to serve as a starting point for the discussions of terrestrial species goals. They are presented on a species-by-species basis, but use the following two basic goals.

Goal 1: Avoid, minimize, and fully mitigate adverse effects of covered activities and BDCP conservation measures on the species. This goal would be applied to all proposed terrestrial covered species. This goal is consistent with ESA section 10, which requires that the plan avoids, minimizes, and mitigates impacts to the maximum extent practicable (50 CFR §17.22(b)(2)(B)), and with CESA, which requires that impacts of authorized take of listed species shall be minimized and fully mitigated (California Fish and Game Code §2081(b)(2).

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- 1 **Goal 2: Conserve the species.** This goal would apply to those proposed terrestrial
- 2 covered species for which 1) habitat will be supported by covered natural communities
- 3 that will be enhanced and restored under the plan within the Planning Area (i.e., tidal
- 4 perennial aquatic, tidal fresh emergent wetland, and valley riparian) and in Suisun Marsh
- 5 (brackish emergent wetland) and 2) implementation of the plan is reasonably certain to
- 6 measurably benefit the species (see Table 1). For listed species accorded this biological
- 7 goal, the plan would contribute to its long-term conservation. For non-listed species
- 8 accorded this goal, the plan would provide a sufficient level of conservation such that,
- 9 should the species become federal- or California-listed over the term of the BDCP, take
- of the species would be covered under the plan through ESA section 10 (16 U.S.C.
- 11 §1539) and NCCP Act assurances (Fish and Game Code §2820(f), §2835).
- 12 The biological goals for each of the proposed terrestrial covered species established are
- presented in Table 1.

14 Table 1. Biological Goals for Proposed Terrestrial Covered Species

Species	Goal 1: Avoid, Minimize, and Fully Mitigate Impacts	Goal 2: Contribute to Conservation	Covered Natural Communities Supporting Habitat
Riparian brush rabbit	X	X	Valley riparian
Salt marsh harvest mouse	X	X	Brackish tidal wetland
Suisun shrew	X	X	Fresh tidal wetland
Tricolored blackbird	Х	X	Brackish tidal wetland, fresh tidal wetland
Yellow breasted chat	X	X	Valley riparian
Western burrowing owl	X		
Swainson's hawk	X	X	Valley riparian
Greater sandhill crane	X		
California black rail	X	X	Brackish tidal wetland, fresh tidal wetland
California clapper rail	X	X	Brackish tidal wetland
Giant garter snake	X	X	Fresh tidal wetland
Western spadefoot toad	X		
Valley elderberry longhorn beetle	Х	X	Valley riparian
Conservancy fairy shrimp	X		
Longhorn fairy shrimp	X		
Vernal pool fairy shrimp	X		
Vernal pool tadpole shrimp	X		
Alkali milk-vetch	X		
Delta button celery	X		
Delta mudwort	X	X	Fresh tidal wetland
Delta tule pea	X	X	Fresh tidal wetland

Handout

Species	Goal 1: Avoid, Minimize, and Fully Mitigate Impacts	Goal 2: Contribute to Conservation	Covered Natural Communities Supporting Habitat
Heckard's peppergrass	X		
Legenere	X		
Mason's lilaeopsis		X	Fresh tidal wetland
San Joaquin spearscale	X		
Soft bird's-beak	X		
Suisun Marsh aster	X	X	Brackish tidal wetland, fresh tidal wetland

The BDCP anticipates coordinating implementation of physical habitat conservation measures and measures to compensate the loss of covered species habitats with approved and pending HCPs/NCCPs that overlap or are adjacent to the Planning Area. This coordination is expected to improve the planning and implementation efficiency of the BDCP and these HCP/NCCPs. BDCP proposed terrestrial covered species that are also covered under existing HCPs/NCCPs or proposed for coverage under HCPs/NCCPs that are under development are listed in Table 2.

Table 2. Proposed BDCP Terrestrial Covered Species that are Covered or May Be Covered under Overlapping and Adjacent HCPs/NCCPs

Species	Approved HCPs/NCCPs		HCPs/NCCPs under Development			
	San Joaquin County	East Contra Costa County	Natomas Basin	Yolo County	South Sacramento County	Solano County
Riparian brush rabbit	X					
Salt marsh harvest mouse						X
Suisun shrew						X
Tricolored blackbird	X	X	X	X	X	X
Yellow breasted chat					X	X
Western burrowing owl		X	X	X	X	X
Swainson's hawk	X	X	X	X	X	X
Greater sandhill crane	X		X		X	
California black rail	X					X
California clapper rail						X
Giant garter snake	X	X	X	X	X	X
Western spadefoot toad			X	X	X	

Species	Approved HCPs/NCCPs		HCPs/NCCPs under Development			
	San Joaquin County	East Contra Costa County	Natomas Basin	Yolo County	South Sacramento County	Solano County
Valley elderberry longhorn beetle	X		X	X	X	X
Conservancy fairy shrimp	X	X	X	X		X
Longhorn fairy shrimp	X	X	X			
Vernal pool fairy shrimp	X	X		X	X	X
Vernal pool tadpole shrimp	X	X	X	X	X	X
Alkali milk-vetch	X			X		X
Delta button celery	X					
Delta mudwort	X					X
Delta tule pea	X		X			X
Heckard's peppergrass				X		X
Legenere	X		X		X	X
Mason's lilaeopsis	X					X
San Joaquin spearscale		X		X		X
Soft bird's-beak						X
Suisun Marsh aster	X					X

Goals and Objectives for Terrestrial Wildlife Species

Salt Marsh Harvest Mouse

Goal SMHA1: Avoid, minimize, and fully mitigate adverse effects of covered activities and BDCP conservation measures on salt marsh harvest mouse.

Objective SMHA1.1: Avoid mortality of salt marsh harvest mouse associated with implementation of covered activities and conservation measures.¹

Objective SMHA1.2: Replace each acre of salt marsh harvest mouse habitat removed as a result of covered activities and conservation measures with acres of restored habitat within the Planning Area and/or Suisun Marsh.

¹ The salt marsh harvest mouse is a designated fully protected species under the California Fish and Code § 4700. Take as defined in California Fish and Game Code §86 of fully protected species is prohibited. Conservation measures to achieve this objective would avoid take of the species in accordance with California Fish and Game Code § 4700.

1	
2	Goal SMHA2: Contribute to the conservation of salt marsh harvest mouse within the
3	BDCP Planning Area and Suisun Marsh.
4	
5	Objective SMHA2.1: Increase the extent of tidal salt marsh harvest mouse
6	habitat in the Planning Area and/or Suisun Marsh by acres.
7	habitat in the Framming Area and/of Sursum Warsh by acres.
	a · a
8	Suisun Shrew
9	
10	Goal SUSH1: Avoid, minimize, and fully mitigate adverse effects of covered activities
11	and BDCP conservation measures on Suisun shrew.
12	
13	Objective SUSH1.1: Avoid and minimize take of Suisun shrew associated with
14	implementation of covered activities and conservation measures.
15	
16	Objective SUSH1.1: Replace each acre of Suisun shrew habitat removed as a
17	result of covered activities and conservation measures with acres of restored
18	habitat within the Planning Area and/or Suisun Marsh.
19	
20	Goal SUSH2: Contribute to the conservation of Suisun shrew within the BDCP
21	Planning Area and Suisun Marsh.
22	Tidining Thea and Sulsan Marsh.
23	Objective SUSH2.1: Increase the extent of tidal Suisun shrew habitat in the
24	Planning Area and/or Suisun Marsh by acres.
25	Flaming Area and/or Suisun Warsh by acres.
	D' ' D 1/D/11'4
26	Riparian Brush Rabbit
27	
28	Goal RIBR1: Avoid, minimize, and fully mitigate adverse effects of covered activities
29	and BDCP conservation measures on riparian brush rabbit.
30	
31	Objective RIBR1.1: Avoid mortality of riparian brush rabbit and removal or
32	degradation of occupied habitat associated with implementation of covered
33	activities and conservation measures.
34	
35	Goal RIBR2: Contribute to the conservation of riparian brush rabbit within the BDCP
36	Planning Area.
37	
38	Objective RIBR2.1: Increase the extent of riparian brush rabbit habitat near
39	occupied habitats within the Planning Area.
40	occupied habitats within the Flamming Pirea.
	Swaingan's Hawk
41	Swainson's Hawk
42	COLLOWITA A CLUB COLLOW
43	Goal SWHA1: Avoid, minimize, and fully mitigate adverse effects of covered activities
44	and BDCP conservation measures on Swainson's hawk.
45	

1	Objective SWHA1.1: Avoid and minimize take of Swainson's hawk associated
2	with implementation of covered activities and conservation measures.
3	•
4	Objective SWHA1.2. Replace each acre of occupied nesting habitat (defined as
5	the circular area encompassed by the distance (i.e., radius of the circular area)
6	extending from an occupied nest tree to suitable nest trees up to 500 feet from the
7	occupied nest tree) removed as a result of covered activities and conservation
8	measures with acres of restored nesting habitat within the Planning Area and
9	miles of the affected habitat.
10	
11	Objective SWHA1.3: Preserve acre(s) of unprotected Swainson's hawk
12	foraging habitat within the Planning Area for each acre of foraging habitat
13	removed as a result of covered activities and conservation measures that is of
14	comparable or greater foraging value than the removed habitat.
15	
16	Goal SWHA2: Contribute to the conservation of Swainson's hawk within the BDCP
17	Planning Area.
18	
19	Objective SWHA2.1: Increase the extent of Swainson's hawk nesting habitat
20	within the Planning Area by acres.
21	
22	California Clapper Rail
23	
24	Goal CLRA1: Avoid, minimize, and fully mitigate adverse effects of covered activities
25	and BDCP conservation measures on California clapper rail.
26	
27	Objective CLRA1.1: Avoid mortality of California clapper rail associated with
28	implementation of covered activities and conservation measures. ²
29	
30	Objective CLRA1.2: Replace each acre of California clapper rail habitat
31	removed as a result of covered activities and conservation measures with acres
32	of comparable restored habitat within or adjacent to occupied or potentially
33	occupied habitat areas within the Planning Area and/or Suisun Marsh.
34	Coal CACD2. Contribute to the concernation of California element within Suisun
35 36	Goal CACR2: Contribute to the conservation of California clapper rail within Suisun Marsh.
37	iviaisii.
38	Objective CLRA2.1: Increase the extent of tidal California clapper rail habitat
39	within Suisun Marsh by acres.
40	within Suisun Maish by acres.
	California Black Rail
41	Camui ma diack kan

² The California clapper rail is a designated fully protected species under the California Fish and Code § 3511. Take as defined in California Fish and Game Code §86 of fully protected species is prohibited. Conservation measures to achieve this objective would avoid take of the species in accordance with California Fish and Code § 3511.

1	
2	Goal BLRA1: Avoid, minimize, and fully mitigate adverse effects of covered activities
3	and BDCP conservation measures on California black rail.
4	
5	Objective BLRA1.1: Avoid mortality of California clapper rail associated with
6	implementation of covered activities and conservation measures. ³
7	
8	Objective BLRA1.2: Replace each acre of California black rail habitat removed
9	as a result of covered activities and conservation measures with acres of
10 11	comparable restored habitat within or adjacent to occupied or potentially occupied
12	habitat areas within the Planning Area and/or Suisun Marsh.
13	Goal BLRA 2: Contribute to the conservation of California black rail within the BDCP
14	Planning Area and Suisun Marsh.
15	Training Thea and Sulsan Marsh.
16	Objective BLRA 2.1: Increase the extent of California black rail habitat within
17	the Planning Area and Suisun Marsh by acres.
18	
19	Greater Sandhill Crane
20	
21	Goal SACR1: Avoid, minimize, and fully mitigate adverse effects of covered activities
22	and BDCP conservation measures on greater sandhill crane.
23	
24	Objective SACR1.1: Avoid mortality of greater sandhill crane associated with
25	implementation of covered activities and conservation measures. ⁴
26	Oltrar GACIDA A D. I I. C A. III'II III'II.
27	Objective SACR1.2: Replace each acre of greater sandhill crane roosting habitat
28 29	removed or fragmented by covered activities and conservation measures with
29 30	acre(s) of restored roosting habitat within traditional winter use areas in the Planning Area.
31	Training Area.
32	Objective SACR1.3 : Preserve acre(s) of unprotected greater sandhill crane
33	foraging habitat within crane wintering areas in the Planning Area for each acre of
34	foraging habitat removed or fragmented as a result of covered activities and
35	conservation measures that, on a per acre basis, is of comparable or greater
36	foraging value than the removed or fragmented habitat.
37	

Western Burrowing Owl

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³ The California black rail is a designated fully protected species under the California Fish and Code § 3511. Take as defined in California Fish and Game Code §86 of fully protected species is prohibited. Conservation measures to achieve this objective would avoid take of the species in accordance with California Fish and Code § 3511.

⁴ The greater sandhill crane is a designated fully protected species under the California Fish and Code California Fish and Code § 3511. Take as defined in California Fish and Game Code §86 of fully protected species is prohibited. Conservation measures to achieve this objective would avoid take of the species in accordance with California Fish and Code § 3511.

1	
2	Goal BUOW1: Avoid, minimize, and fully mitigate adverse effects of covered activities
3	and BDCP conservation measures on western burrowing owl.
4 5	Objective BUOW1.1: Avoid and minimize disturbance of occupied burrowing
6	owl burrows associated with implementation of covered activities and
7	conservation measures.
8	
9	Objective BUOW1.2: Preserve acre(s) of unprotected burrowing owl habitat
10	within the Planning Area for each acre of breeding and wintering habitat removed
11	as a result of covered activities and conservation measures that is of comparable
12	or greater habitat value than the removed habitat.
13	
14	Tricolored Blackbird
15	
16	Goal TRBB1: Avoid, minimize, and fully mitigate adverse effects of covered activities
17	and BDCP conservation measures on tricolored blackbird.
18	
19	Objective TRBB1.1: Avoid and minimize disturbances to active tricolored
20	blackbird breeding colonies associated with implementation of covered activities
21	and conservation measures during the breeding season.
22	
23	Objective TRBB1.2: Replace each acre of occupied nesting habitat removed as a
24	result of covered activities and conservation measures with acre(s) of restored
25	nesting habitat in minimum patch sizes of 0.5 acres within the Planning Area that
26	are in close proximity to foraging habitat.
27	Coal TDDD2. Contribute to the conservation of triceland blockhind within the DDCD
28	Goal TRBB2: Contribute to the conservation of tricolored blackbird within the BDCP
29 30	Planning Area and Suisun Marsh.
31	Objective TRBB2.1: Increase the extent of tricolored blackbird nesting habitat
32	in the Planning Area and Suisun Marsh by acres.
33	in the Flamming Area and Sursun Warsh by acres.
34	Yellow-breasted Chat
35	Tenow-bi casted Chat
36	Goal YBCH1: Avoid, minimize, and fully mitigate adverse effects of covered activities
37	and BDCP conservation measures on yellow-breasted chat.
38	and BDC1 conservation measures on yenow-breasted chat.
39	Objective YBCH1.1: Avoid and minimize disturbances to active yellow-
40	breasted chat nest sites associated with implementation of covered activities and
41	conservation measures during the breeding season.
42	constructor measures during the orecaming season.
43	Objective YBCH1.2: Replace each acre of yellow-breasted chat nesting habitat
44	removed as a result of covered activities and conservation measures with
45	acre(s) of restored habitat.

1	
2	Goal YBCH2: Contribute to the conservation of yellow-breasted chat within the BDCP
3	Planning Area.
4	
5	Objective YBCH2.1: Increase the extent of yellow-breasted chat habitat in the
6	Planning Area by acres.
7	
8	Giant Garter Snake
9	Giant Garter Shake
10	Goal GIGS1: Avoid, minimize, and fully mitigate adverse effects of covered activities
11	and BDCP conservation measures on giant garter snake.
12	and BBC1 conservation measures on grant garter snake.
13	Objective GIGS1.1: Avoid and minimize take of giant garter snake associated
14	with implementation of covered activities and conservation measures.
15	with implementation of covered activities and conservation measures.
16	Objective GIGS1.2: Compensate for each acre of giant garter snake habitat
17	removed or fragmented as a result of covered activities and conservation
18	measures with acre(s) of comparable restored habitat or through preservation
19	
20	ofacre(s) of unprotected potentially occupied giant garter snake habitat within
21	the Planning Area.
22	Coal CICS2. Contribute to the concernation of giant genter angles within the PDCD
23	Goal GIGS2: Contribute to the conservation of giant garter snake within the BDCP Planning Area.
24	Fialling Alea.
25	Objective GIGS2.1: Increase the extent of tidal giant garter snake habitat within
26	the Planning Area by acres.
27	the Flamming Area by acres.
	Wastown Snadofoot Toad
28	Western Spadefoot Toad
29	Coal SPTO1. Avaid minimize and fully mitigate adverse affects of account activities
30 31	Goal SPTO1: Avoid, minimize, and fully mitigate adverse effects of covered activities and BDCP conservation measures on western spadefoot toad.
32	and BDCF conservation measures on western spaceroot toad.
33	Objective SPTO1.1: Minimize and avoid adverse impacts of covered activities
	-
34	and conservation measures on western spadefoot toad.
35 36	Objective SPTO1.2: Compensate for each acre of western spadefoot toad habitat
37	removed as a result of covered activities and conservation measures with
38	
	acre(s) of comparable restored habitat or through preservation of acre(s) of
39	unprotected potentially occupied western spadefoot toad habitat within the
40	Planning Area.
41	Waller Eldoubours I on abour Double
42	Valley Elderberry Longhorn Beetle
43	
44	Goal VELB1: Avoid, minimize, and fully mitigate adverse effects of covered activities

and BDCP conservation measures on valley elderberry longhorn beetle.

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1	
2	Objective VELB1.1: Avoid and minimize take of valley elderberry longhorn
3	beetle.
4	
5	Objective VELB1.2: Compensate for the removal or degradation of valley
6	elderberry longhorn beetle habitat. [Note to Reviewers: it is anticipated that
7	conservation measures for this objective would be consistent with the July 9, 1999
8	USFWS valley elderberry longhorn beetle compensation guidelines.]
9	
10	Goal VELB2: Contribute to the conservation of valley elderberry longhorn beetle within
11	the BDCP Planning Area.
12	
13	Objective VELB2.1: Increase the extent of riparian habitats that support
14	elderberry shrubs by acres within the Planning Area.
15	
16	Fairy Shrimp (Vernal Pool Fairy Shrimp, Vernal Pool Tadpole Shrimp,
17	Conservancy Fairy Shrimp, and Longhorn Fairy Shrimp)
18	conservancy rung surmip, and Longhorn rung surmip)
19	
20	Goal FASH1: Avoid, minimize, and fully mitigate adverse effects of covered activities
21	and BDCP conservation measures on fairy shrimp.
22	and BB of conservation incusares on ranky similar.
23	Objective VPFS1.1: Avoid and minimize take of fairy shrimp associated with
24	implementation of covered activities and conservation measures.
25	
26	Objective VPFS1.2: Compensate for the removal or degradation of occupied
27	fairy shrimp habitats. [Note to Reviewers: it is anticipated conservation
28	measures for this objective would be consistent with USFWS guidelines dated
29	February 28, 1996.]
30	
31	Alkali milk-vetch
32	
33	Goal ALMV 1: Avoid, minimize, and fully mitigate adverse effects of covered activities
34	and BDCP conservation measures on alkali milk-vetch.
35	
36	Objective ALMV1.1: Avoid and minimize impacts on occurrences of alkali
37	milk-vetch and on the watersheds which support its vernal pool, vernal swale, alkali
38	meadow, and alkali sink habitat associated with implementation of covered
39	activities and conservation measures.
40	
41	Objective ALMV1.2: Compensate for each acre of occupied alkali milk-vetch
42	habitat removed or degraded as a result of covered activities and conservation
43	measures with acre(s) of comparable restored habitat and provide for the
44	establishment of alkali milk-vetch in the restored habitat or through preservation

45

1	of acre(s) of occupied alkali milk-vetch habitat within the Planning Area or
2	Suisun Marsh.
3	
4 5	
6	
7	Delta Button-Celery
8	
9 10	Goal DEBC1: Avoid, minimize, and fully mitigate adverse effects of covered activities and conservation measures on delta button-celery.
11	The second control of
12	Objective DEBC1.1: Avoid and minimize impacts on occurrences of delta
13 14	button-celery associated with implementation of covered activities and
14	conservation measures.
15	
16	Objective DEBC1.2: Compensate for each acre of occupied delta button-celery
17	habitat removed or degraded as a result of covered activities and conservation
18	measures with acre(s) of comparable restored habitat and provide for the
19	establishment of delta button-celery in the restored habitat or through preservation
20	of acre(s) of occupied delta button-celery habitat within the Planning Area.
21	
	Delta Mudwort
22	Delta Muuwoft
23	CLAINTENANTA A 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24	Goal DEMW1: Avoid, minimize, and fully mitigate adverse effects of covered activities
25	and BDCP conservation measures on Delta mudwort.
26	
27	Objective DEMW1.1: Avoid and minimize impacts on occurrences of delta
28	mudwort associated with implementation of covered activities and conservation
29	measures.
30	
31	Objective DEMW1.2: Compensate for each linear foot of occupied delta
32	mudwort habitat removed or degraded as a result of covered activities and
33	conservation measures with linear feet of comparable restored habitat and
34	provide for the establishment of delta mudwort in the restored habitat or through
35	preservation of linear feet of occupied delta mudwort habitat within the
36	Planning Area or Suisun Marsh.
37	
38	Goal DEMW2: Contribute to the conservation of delta mudwort within the BDCP
39	Planning Area and Suisun Marsh.
1 0	
41	Objective DEMW2.1: Increase the extent of delta mudwort tidal channel margin
12	habitat within the Planning Area and Suisun Marsh by linear feet.
43	· —
14	Delta Tule Pea

1 2	Goal DETP1: Avoid, minimize, and fully mitigate adverse effects of covered activities and BDCP conservation measures on Delta tule pea.
3	
4 5	Objective DETP1.1: Avoid and minimize impacts on occurrences of delta tule pea associated with implementation of covered activities and conservation
6	measures.
7	mousures.
8	Objective DETP1.2: Compensate for each linear foot of occupied delta tule pea
9	habitat removed or degraded as a result of covered activities and conservation
10	measures with linear feet of comparable restored habitat and provide for the
11	establishment of delta tule pea in the restored habitat or through preservation of
12	linear feet of occupied delta tule pea habitat within the Planning Area or Suisun
13	Marsh.
14	TAKISHI
15	Goal DETP2: Contribute to the conservation of delta tule pea within the BDCP
16	
	Planning Area and Suisun Marsh.
17	
18	Objective DETP2.1: Increase the extent of delta tule pea tidal channel margin
19	habitat within the Planning Area and Suisun Marsh by linear feet.
20	
21	Heckard's Peppergrass
22	
23 24	Goal HEPE 1: Avoid, minimize, and fully mitigate adverse effects of covered activities and BDCP conservation measures on Heckard's peppergrass.
	and BDCF conservation measures on freekard's peppergrass.
25	OLY AS THE DELTA A STATE OF THE
26	Objective HEPE1.1: Avoid and minimize impacts on occurrences of Heckard's
27	peppergrass and on the watersheds which support its vernal pool, vernal swale, alkali
28	meadow, and alkali sink habitat associated with implementation of covered
29	activities and conservation measures.
30	
31	Objective HEPE1.2: Compensate for each acre of occupied Heckard's
32	peppergrass habitat removed or degraded as a result of covered activities and
33	conservation measures with acre(s) of comparable restored habitat and provide
34	for the establishment of Heckard's peppergrass in the restored habitat or through
	1 11 9
35	preservation ofacre(s) of occupied Heckard's peppergrass habitat within the
36	Planning Area.
37	
38	Legenere
39	
40	Goal LELI1: Avoid, minimize, and fully mitigate adverse effects of covered activities
41	and BDCP conservation measures on legenere.
42	======================================
43	Objective LELI1.1: Avoid and minimize impacts on occurrences of legenere
44	and on the watersheds which support its vernal pool and vernal swale habitat
45	associated with implementation of covered activities and conservation measures.

1	
2	Objective LELI1.2: Compensate for each acre of occupied legenere habitat
3	removed or degraded as a result of covered activities and conservation measures
4	with acre(s) of comparable restored habitat and provide for the establishment
5	of legenere in the restored habitat or through preservation of acre(s) of
6	occupied legenere habitat within the Planning Area.
7	
8	
9	Mason's Lilaeopsis
10	
11	Goal MALI1: Avoid, minimize, and fully mitigate adverse effects of covered activities
12	and BDCP conservation measures on Mason's lilaeopsis.
13	
14	Objective MALI1.1: Avoid and minimize impacts on occurrences of Mason's
15	liaeopsis associated with implementation of covered activities and conservation
16	measures.
17	
18	Objective MALI1.2: Compensate for each linear foot of occupied Mason's
19	liaeopsis habitat removed or degraded as a result of covered activities and
20	conservation measures withlinear feet of comparable restored habitat and
21	provide for the establishment of Mason's liaeopsis in the restored habitat or
22	through preservation of linear feet of occupied Mason's liaeopsis habitat
23	within the Planning Area or Suisun Marsh.
24	
25	Goal MALI2: Contribute to the conservation of Mason's lilaeopsis within the BDCP
26	Planning Area and Suisun Marsh.
27	
28	Objective MALI2.1: Increase the extent of Mason's lilaeopsis tidal channel
29	margin habitat within the Planning Area and Suisun Marsh by linear feet.
30	
31	San Joaquin Spearscale
32	
33	Goal SJSP1: Avoid, minimize, and fully mitigate adverse effects of covered activities
34	and BDCP conservation measures on San Joaquin spearscale.
35	
36	Objective SJSP1.1: Avoid and minimize impacts on occurrences of San Joaquin
37	spearscale and on the watersheds which support its vernal pool, vernal swale, alkali
38	meadow, alkali sink, and brackish tidal marsh habitat.
39	
40	Objective SJSP 1.2: Compensate for each acre of occupied San Joaquin
41	spearscale habitat removed or degraded as a result of covered activities and
42	conservation measures with acre(s) of comparable restored habitat and provide
43	for the establishment of San Joaquin spearscale in the restored habitat or through
44	preservation of acre(s) of occupied San Joaquin spearscale habitat within the
45	Planning Area or Suisun Marsh.

1	
2	Soft Bird's-Beak
3 4	Goal SOBB1: Avoid, minimize, and fully mitigate adverse effects of covered activities
5	and BDCP conservation measures on soft bird's beak.
6	
7	Objective SOBB1.1: Avoid take of soft bird's beak associated with
8	implementation of covered activities and conservation measures.
9	
10	Suisun Marsh aster
11	
12	Goal SUMA1: Avoid, minimize, and fully mitigate adverse effects of covered activities
13	and BDCP conservation measures on Suisun Marsh aster.
14	
15	Objective SUMA1.1: Avoid and minimize impacts on occurrences of Suisun
16	marsh aster associated with implementation of covered activities and conservation
17	measures.
18	
19	Objective SUMA1.2: Compensate for each linear foot of occupied Suisun marsh
20	aster habitat removed or degraded as a result of covered activities and
21	conservation measures with linear feet of comparable restored habitat and
22	provide for the establishment of Suisun marsh aster in the restored habitat or
23	through preservation of linear feet of occupied Suisun marsh aster habitat
24	within the Planning Area or Suisun Marsh.
25	
26	Goal SUMA2: Contribute to the conservation of Suisun Marsh aster within the BDCP
27	Planning Area and Suisun Marsh.
28	
29	Objective SUMA2.1: Increase the extent of Suisun marsh aster tidal channel
30	margin habitat within the Planning Area by linear feet.
31	